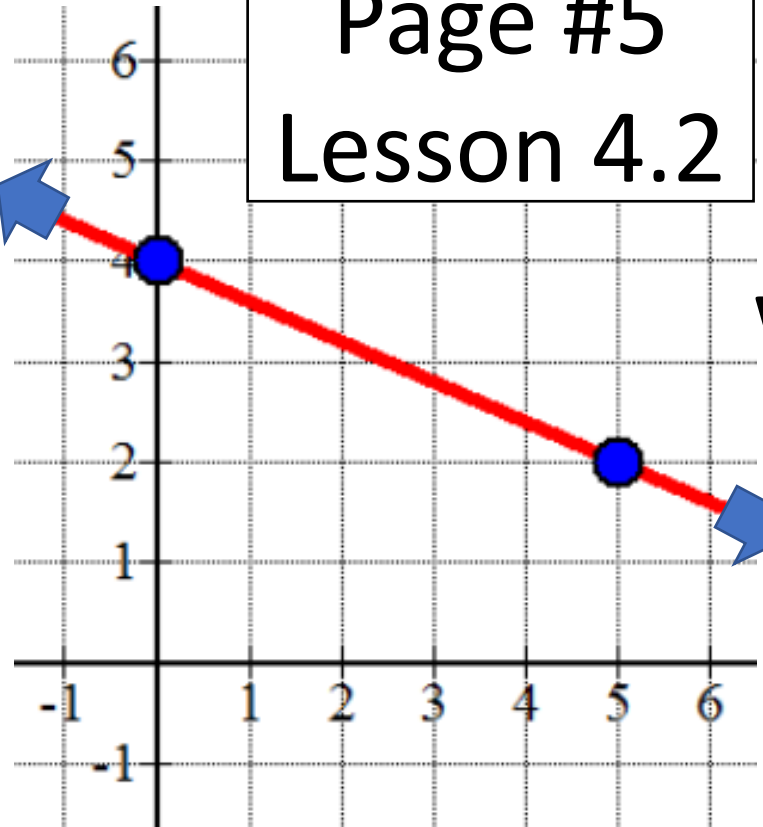


Activator

What is the equation of every line? $Y = MX + B$

Write an equation for given graph.

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Lesson 4.2



What is the slope (M)? $M = \frac{-2}{5}$

What is the y-intercept (B)?

$B = 4$

What is this equation?

$Y = \frac{-2}{5}x + 4$

Today's Objective

Unit 4

Lesson 2

Students will be able graph fractions and write the slope (M) and y-intercept (B-value).





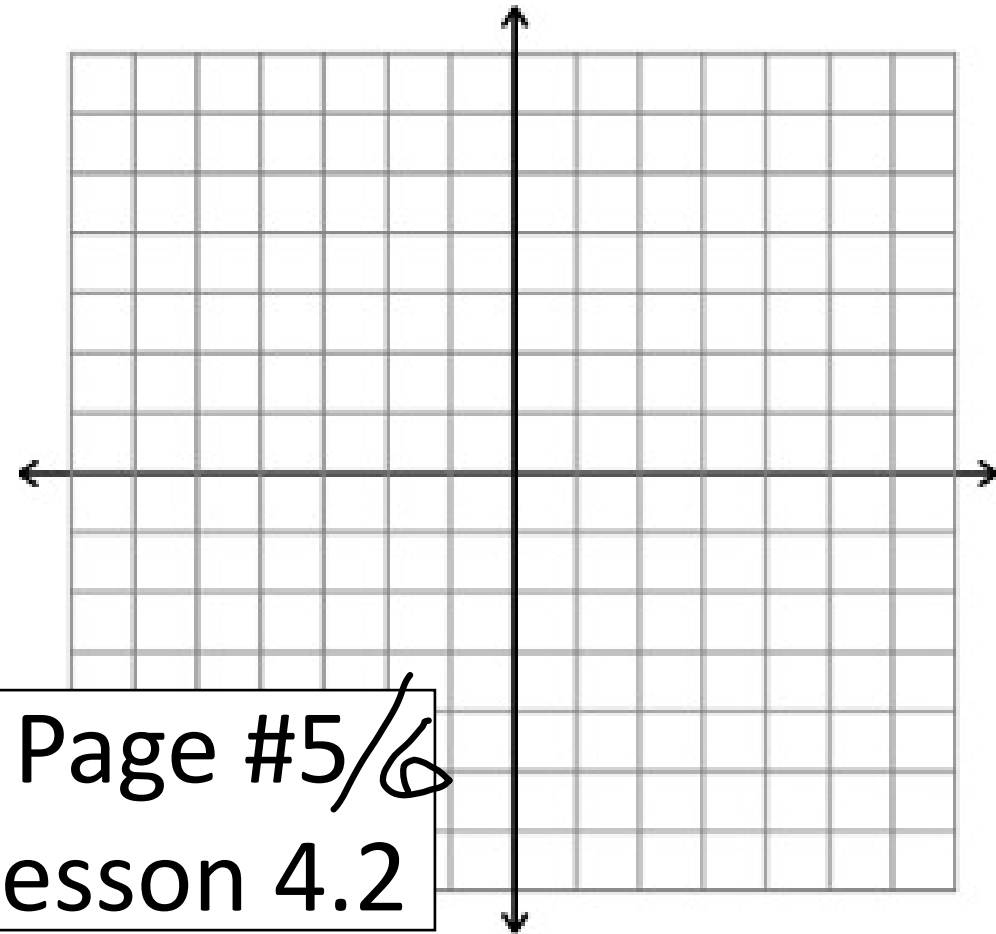
Today's New Vocab (1 of 4)

Graph the equation $y = \frac{-1}{2}x + 3$

X	Y
0	3
2	2
4	1
6	0

How do you
enter fractions?

Control
then
Divide



Today's New Vocab (2 of 4)

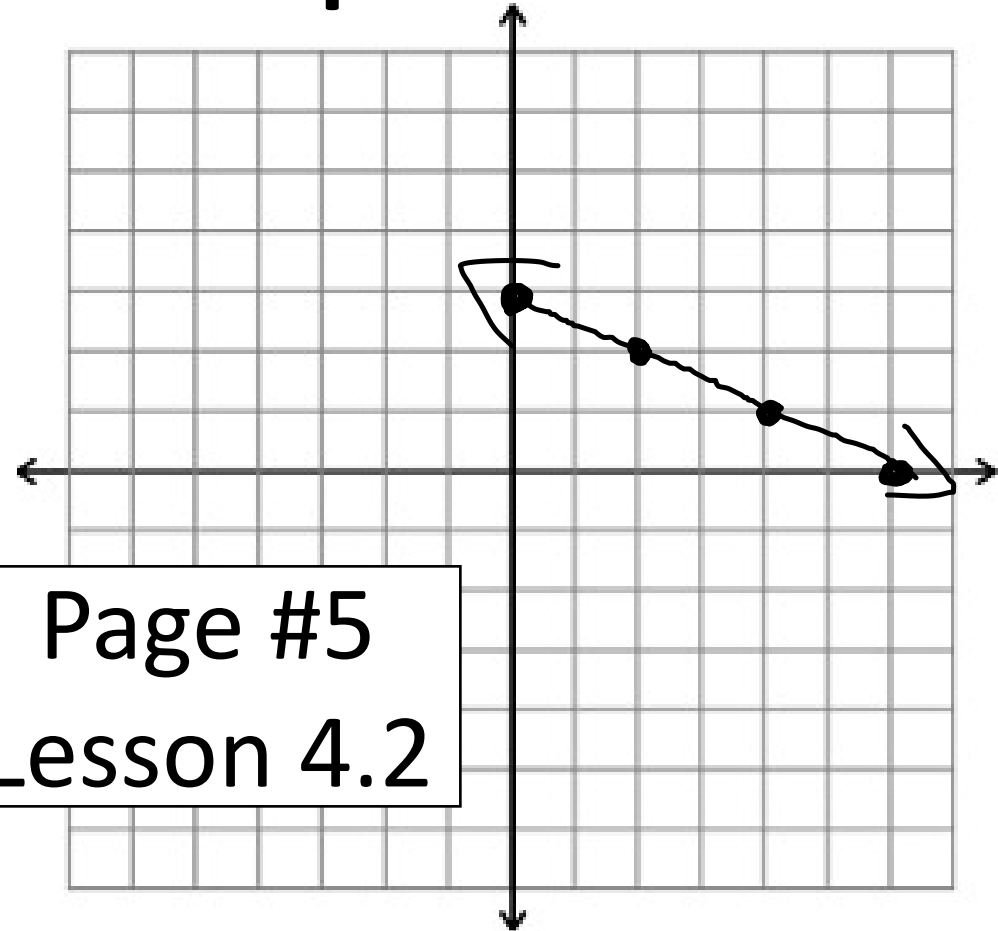
$$y = \frac{-1}{2}x + 3 \quad \text{Answer the questions.}$$

What is the y-intercept (B)? $(0, 3)$
 $B = 3$

What is the slope (m)? $M = \frac{-1}{2}$

Explain the slope using words.

The line goes 2 right and 1 down.



Today's New (3 of 4)

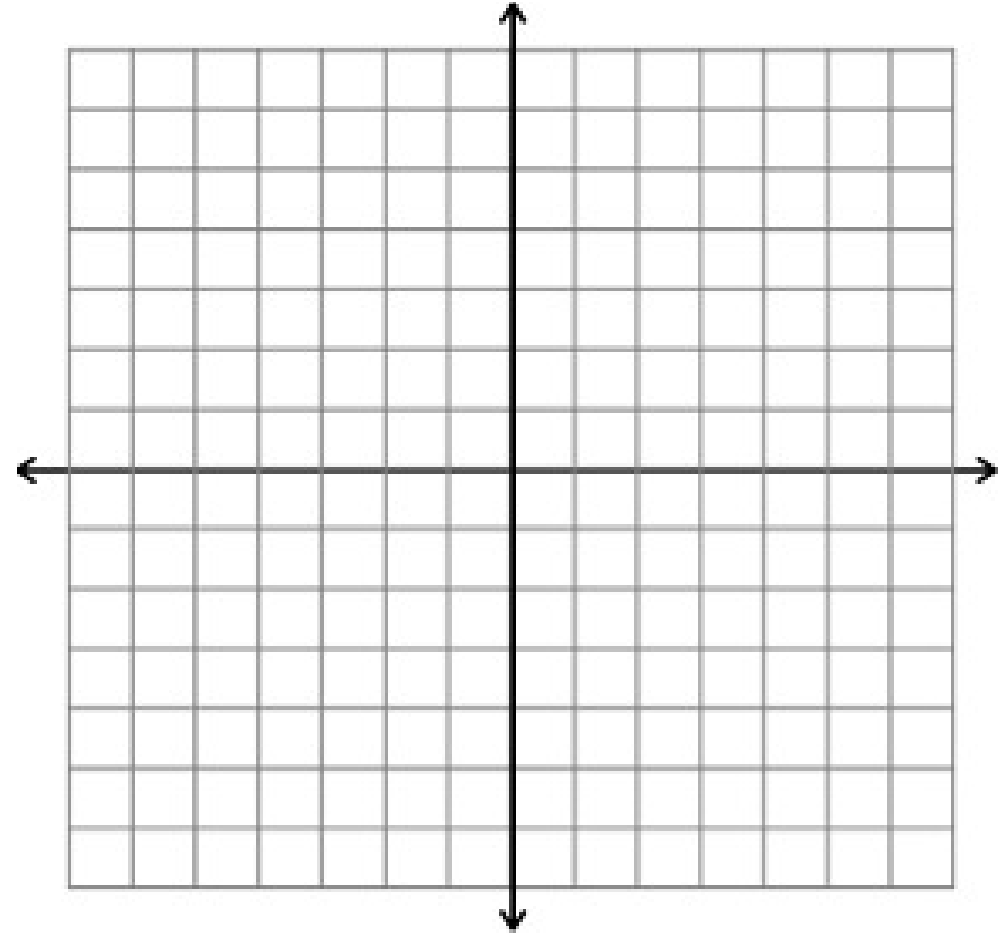
Graph the equation $y = \frac{2}{3}x - 4$

Do you graph
decimal #'s?

x	y
0	-4
3	-2
6	0

No, skip those
table values.

Begin your table at (0,B).



Today's New Vocab (4 of 4)

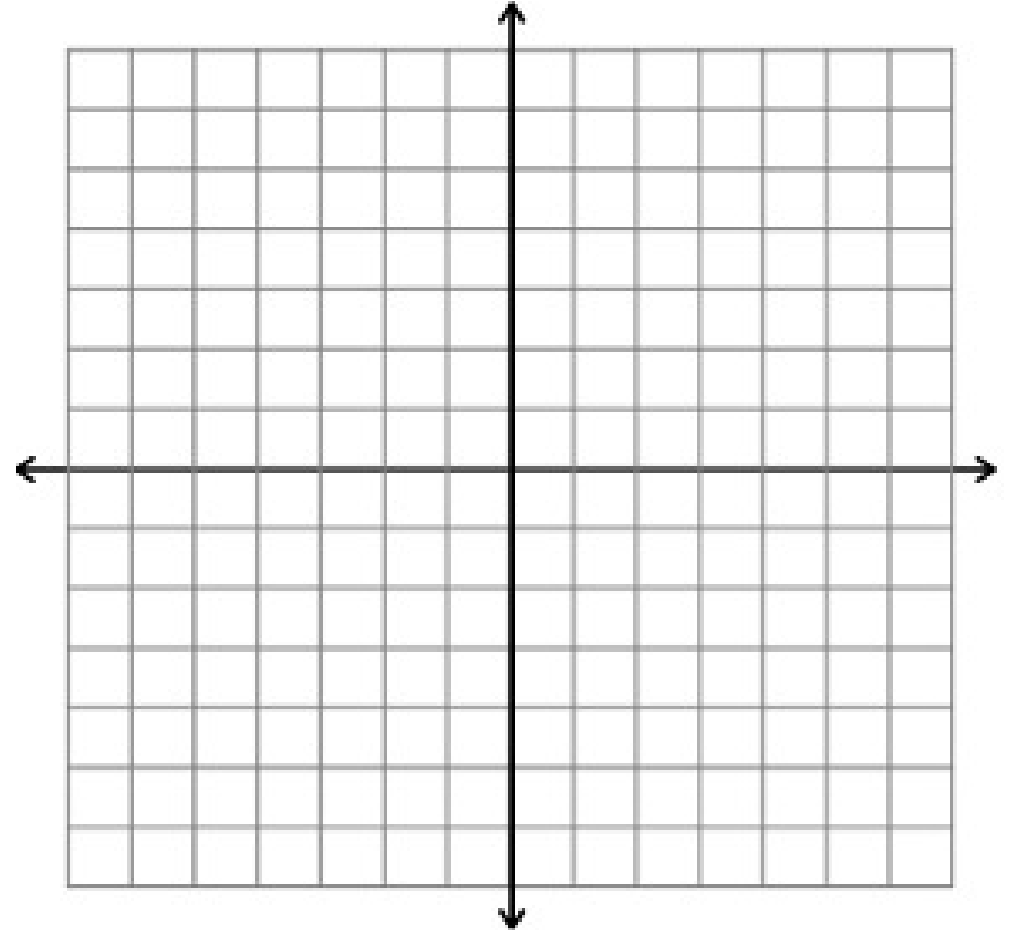
What is the equation of this line?

$$b = -4$$

$$Y = mx + b$$

$$m = \frac{2}{3}$$

$$Y = \frac{2}{3}x - 4$$



Page #6

Lesson 4.2

Work Period

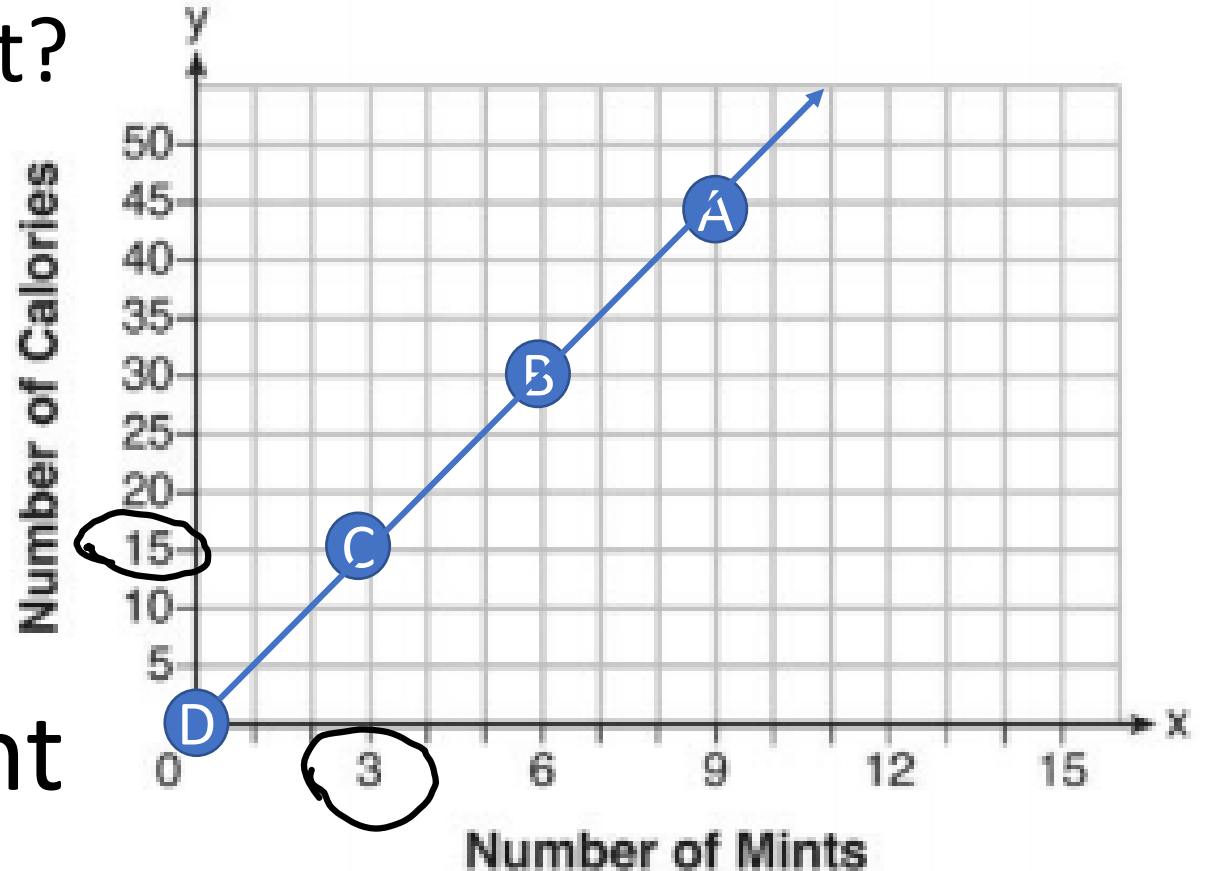
Max purchased a box of green tea mints. The nutrition label on the box stated that a serving of three mints contains a total of 15 Calories. On the axes below, graph the function, C , where $C(x)$ represents the number of Calories in x mints.

How many calories are in 1 mint?

$$\frac{\text{change in the } y}{\text{change in the } x} = \text{Slope}$$

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Lesson 4.2

$$\frac{+15}{3} = 5 \text{ calories per mint}$$



Exit #2

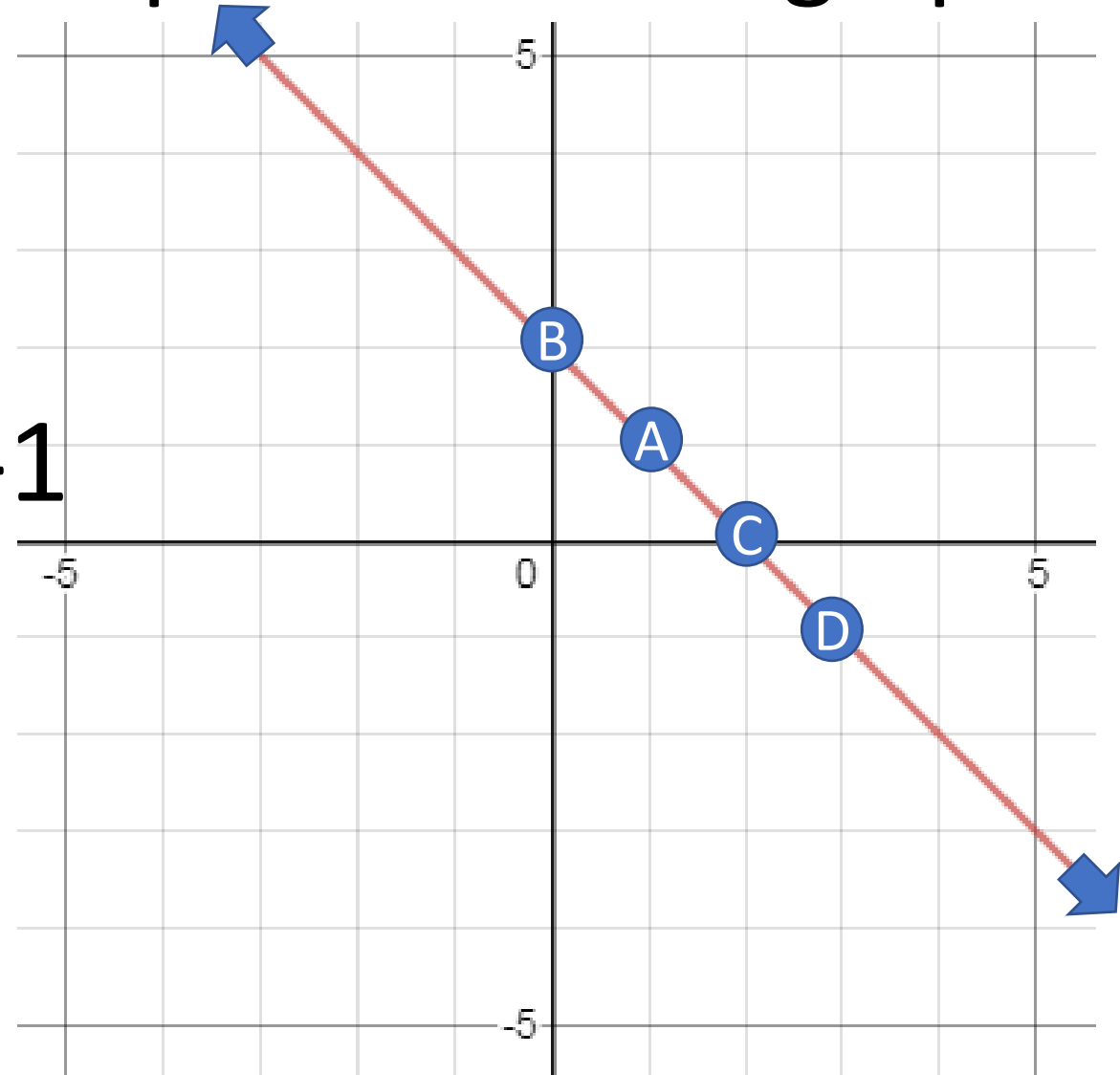
Which of the following is the equation of the graph?

B = Beginning = +2

$$M = \text{Slope} = \frac{\text{Down}}{\text{Right}} = \frac{-1}{1} = -1$$

$$Y = Mx + B$$

$$Y = -1x + 2$$



Group Work Questions

Pages 7-8
Lesson 4.2

Directions: All groups, please do all of the questions. Use your notes from last class to help you. [Ask 2 people before you ask me.]

Yesterday, we did Lesson 4.2 Notes.

1st Stop @ 8:16

*One person from each group will present one question.

Exit Ticket

Write a linear model (**equation**) for the resale value of a fridge.

Equation is $Y = -44X + 600$

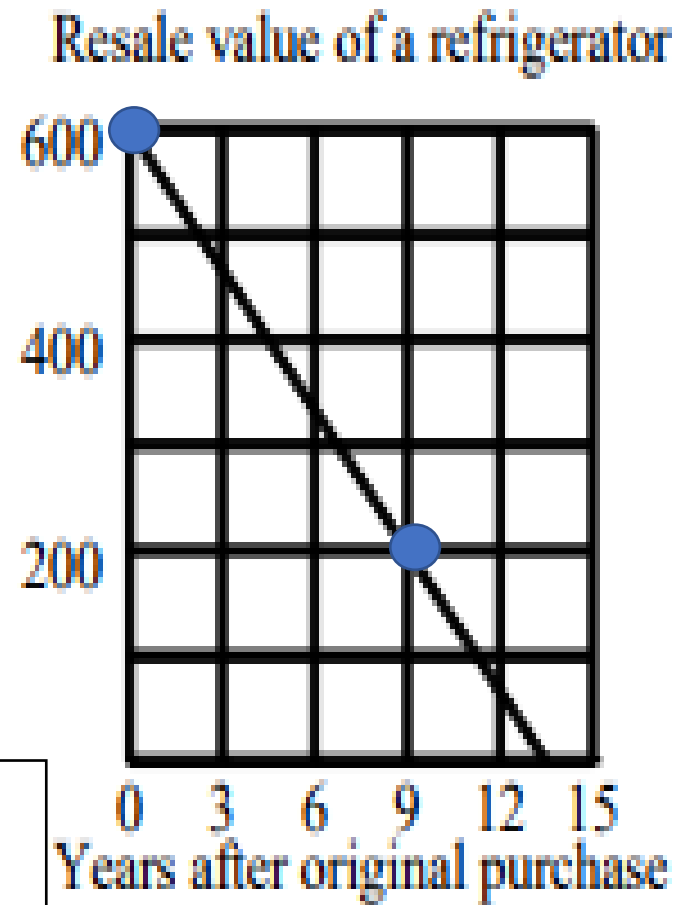
What is the y-intercept (B) ?

$(0, 600)$ $B = 600$

What is the slope (M) ?

$$M = \frac{-400}{9} = -44$$

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Lesson 4.2



Exit Ticket

Write a linear model (**equation**) for the resale value of a fridge.

Equation is $Y = -44X + 600$

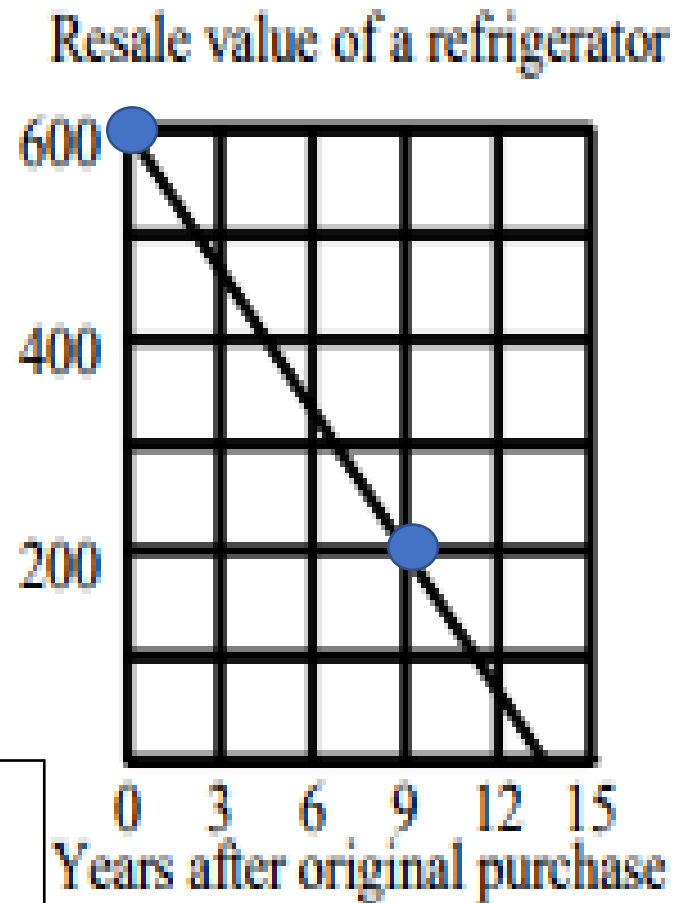
What is the y-intercept (B) ?

$(0, 600)$ $B = 600$

What is the slope (M) ?

$$M = \frac{-400}{9} = -44$$

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Lesson 4.2





Lesson 4.2 Game

All correct answers receive a wheel spin.

- * Get the bag from Mr. V.
- * Spread out the pieces.
- * Match the graph to the equation.
- **There are 12 correct pairs in all.**

Earn \$2 per pair. Spin once after finishing.